

IN THE CLAIMS:

1. (Currently Amended) A method, comprising:
generating ~~(30)~~ a real-time video signal of the video image by a camera sensor ~~of the image generating and processing block,~~
generating a real-time horizontally downsampled video signal using horizontal downscaling of the real-time video signal by the camera sensor using combining weighted pixels values according to a predetermined algorithm , and
generating a real-time vertically and horizontally downsampled video signal using vertical downscaling of the real-time horizontally downsampled video signal by a processing block ~~of the image generating and processing block.~~

2. (Previously Presented) The method of claim 1, wherein said horizontal downscaling is performed without a line memory and before said generating the real-time vertically and horizontally downsampled video signal, the method further comprises:

providing said real-time horizontally downsampled video signal from the camera sensor to the processing block through a camera compact port bus of the image generating and processing block.

3. (Cancelled)

4. (Cancelled)

5. (Previously Presented) The method of claim 1,
further comprising:

 providing the real-time vertically and horizontally
downscaled video signal indicative of the video image
through an internal bus to a real-time viewfinder display
and displaying said video image on the real-time viewfinder
display.

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) The method of claim 1, wherein
the image generating and processing block is a part of a
camera-phone mobile device and the method further
comprises:

 encoding the real-time vertically and horizontally
downscaled video signal by a video packing block of the
image generating and processing block for generating an
encoded video signal, and

 providing said encoded video signal through a further
internal bus to at least one of: a file/stream block and a
phone memory of the camera-phone mobile device.

9. (Previously Presented) The method of claim 1,
further comprising:

 encoding the vertically and horizontally downscaled
video signal by a video packing block of the image

generating and processing block for generating an encoded video signal.

10. (Previously Presented) An image generating and processing block, comprising:

a camera sensor, responsive to a video image, configured to generate a real-time video signal of the video image and further configured to generate a real-time horizontally downsampled video signal using horizontal downscaling of the real-time video signal using combining weighted pixels values according to a predetermined algorithm ; and

a processing block, responsive to the real-time horizontally downsampled video signal, configured to generate a real-time vertically and horizontally downsampled video signal using vertical downscaling of the real-time horizontally downsampled video signal.

11. (Previously Presented) The image generating and processing block of claim 10, wherein the camera sensor comprises a camera memory.

12. (Previously Presented) The image generating and processing block of claim 10, wherein the processing block comprises a processing memory.

13. (Previously Presented) The image generating and processing block of claim 10, wherein said horizontal

downscaling is performed without a line memory and the image generating and processing block further comprises:

a camera compact port bus, responsive to the real-time horizontally downsampled video signal from the camera sensor, configured to provide the real-time horizontally downsampled video signal to the processing block.

14. (Previously Presented) A camera-phone mobile device, comprising:

an image generating and processing block configured to generate a real-time vertically and horizontally downsampled video signal of a video image, and configured to encode said real-time vertically and horizontally downsampled video signal for generating an encoded video signal, wherein said real-time vertically and horizontally downsampled video signal is horizontally downsampled first to provide a real-time horizontally downsampled video signal using combining weighted pixels values according to a predetermined algorithm without using a line memory; and

a real-time viewfinder display, responsive to the real-time vertically and horizontally downsampled video signal, configured to provide a display of the video image indicative by said real-time vertically and horizontally downsampled video signal.

15. (Previously Presented) The camera-phone mobile device of claim 14, further comprising:

a file/stream block, responsive to the encoded signal, configured to provide a call connection to other mobile devices; and

a phone memory, responsive to the encoded signal, configured to provide the encoded signal.

16. (Previously Presented) The camera-phone mobile device of claim 14, wherein the image generating and processing block comprises:

a camera sensor, responsive to the video image, configured to generate the real-time video signal of the video image and further configured to generate said real-time horizontally downsampled video signal using horizontal downscaling of the real-time video signal; and

a processing block, responsive to the real-time horizontally downsampled video signal, configured to generate the real-time vertically and horizontally downsampled video signal using vertical downscaling of the real-time horizontally downsampled video signal.

17. (Previously Presented) The camera-phone mobile device of claim 16, wherein the processing block is a base band engine of the camera-phone mobile device.

18. (Previously Presented) The camera-phone mobile device of claim 16, wherein the camera sensor comprises a camera memory.

19. (Previously Presented) The camera-phone mobile device of claim 16, wherein the processing block comprises a processing memory.

20. (Previously Presented) The camera-phone mobile device of claim 16, further comprising:

a camera compact port bus, responsive to the real-time horizontally downsampled video signal from the camera sensor, configured to provide the real-time horizontally downsampled video signal to the processing block.

21. (Currently Amended) A method, comprising:

generating a real-time video signal of the video image by a camera sensor ~~of the image generating and processing block~~; and

generating a real-time horizontally downsampled video signal using horizontal downscaling of the real-time video signal by the camera sensor using combining weighted pixels values in the same row according to a predetermined algorithm without using a line memory.

22 (Previously Presented) The method of claim 21, further comprising:

generating a real-time vertically and horizontally downsampled video signal using vertical downscaling of the real-time horizontally downsampled video signal by said camera sensor or by a processing block of the image generating and processing block.

23. (Previously Presented) The method of claim 22, wherein pixel color components of a downsampled image comprised in

said real-time horizontally downsampled video signal have substantially equal phases.

24. (Currently Amended) An electronic device, comprising:
a camera sensor, configured to generate a real-time video signal of the video image and further configured to generate a real-time horizontally downsampled video signal using horizontal downsampling of the real-time video signal by the camera sensor using combining weighted pixels values in the same row according to a predetermined algorithm without using a line memory.

25. (Previously Presented) The electronic device of claim 24, wherein said camera sensor is still further configured to generate a real-time vertically and horizontally downsampled video signal using vertical downsampling of the real-time horizontally downsampled video signal.

26. (Previously Presented) The electronic device of claim 24, wherein pixel color components of a downsampled image comprised in said real-time horizontally downsampled video signal have substantially equal phases.

27. (Previously Presented) The camera-phone mobile device of claim 14, wherein the image generating and processing block comprises:

a camera sensor, responsive to the video image, configured to generate the real-time video signal of the video image and further configured to generate said real-time horizontally downsampled video signal using horizontal downsampling of the real-time video signal and is still further configured to generate a real-time vertically and

horizontally downsampled video signal using vertical downscaling of the real-time horizontally downsampled video signal.

28. (Previously Presented) The method of claim 1, wherein pixel color components of a downsampled image comprised in said real-time horizontally downsampled video signal have substantially equal phases.

29. (Previously Presented) The image generating and processing block of claim 10, wherein pixel color components of a downsampled image comprised in said real-time horizontally downsampled video signal have substantially equal phases.